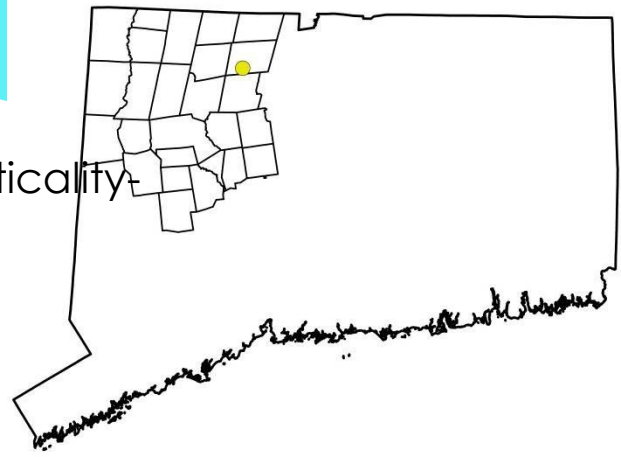


Climate Change Pilot Study Criticality- Structure Assessment

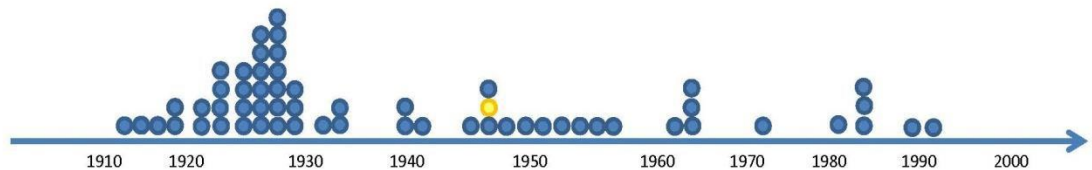


Structure: 02315

Location: Barkhamsted

Year Built: 1948

Criticality Ranking: 7



Structure 02315 is located on Route 44 over an Unnamed Brook in Barkhamsted. According to a bridge inspection from July 2009, the structure is in adequate condition, with some minor damage to the channel and channel protection. It has the hydraulic capacity to convey the 100-yr frequency event discharge, but does not have additional capacity to convey greater flows. Because of the lack of adaptive capacity and the structure's location along a busy NHS route and adjacent to scour critical structures, it is ranked in the high moderate risk category.

		Very Low to Low			Moderate				Critical to Very Critical		
		1	2	3	4	5	6	7	8	9	10
Hydraulic	High adaptive capacity				Moderate adaptive capacity				Low adaptive capacity		
	No history of closure				History of periodic closures				Significant history of closure		
	Satisfies WSE criteria				Adjacent to scour critical structures				Does not satisfy WSE criteria		
Spatial	Outside FEMA flood zones				Within 500 year FEMA flood zone				Within 100 year FEMA flood zone		
	Low concentration of impervious surfaces				Moderate concentration of impermeable surfaces				High concentration of impermeable surfaces		
Social	Low ADT & V/C				Moderate ADT & V/C				High ADT & V/C		
	0-4 accidents				5 or more accidents				Emergency route		
	Non-NHS, non-emergency route				NHS route				Emergency services cluster		